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Building & Highway Material Testing Laboratory

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.10/CJ/CEMENT/2013-14

Date: 29.07.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. C. Jayakumar,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC drain at Pete Siddappa Thiruvu Doddabommasandra main road in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-Proc/(4572)/WO/100/2013-14 Dated: 26.07.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.10/CJ/SAND/2013-14 : 29.07.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Jayakumar,** Contractor, Bangalore.

Name of Work : Construction of RCC drain at Pete Siddappa Thiruvu Doddabommasandra main road in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-Proc/(4572)/WO/100/2013-14 Dated: 26.07.2013

Date of Testing : 29.07.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	4.25	4.25	95.8	90-100
2.36	180	9.00	13.25	86.8	75-100
1.18	425	21.25	34.50	65.5	55-90
600 Micron	480	24.00	58.50	41.5	35-59
300 Micron	526	26.30	84.80	15.2	8-30
150 Micron	210	10.50	95.30	4.7	0-10

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Sadhan AE

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Job No.: CTCE/BBMP/W.No.10/CJ/AGG/2013-14 : 29.07.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Jayakumar,** Contractor, Bangalore.

Name of Work : Construction of RCC drain at Pete Siddappa Thiruvu Doddabommasandra main road in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-Proc/(4572)/WO/100/2013-14 Dated: 26.07.2013

Date of Testing : 29.07.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1015	3.98	3.98	96.02	95-100
20	16245	63.71	67.69	32.31	30-70
10	5000	19.61	87.29	12.71	10-35
4.75	2500	9.80	97.10	2.90	0-5

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Zodha AE

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Job No.: CTCE/BBMP/W.No.10/CJ/STEEL/2013-14 29.07.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Jayakumar,** Contractor, Bangalore.
Name of the Work	:	Construction of RCC drain at Pete Siddappa Thiruvu Doddabommasandra main road in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-Proc/(4572)/WO/100/2013-14 Dated: 26.07.2013
Date of Test	:	29.07.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

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Job No.: CTCE/BBMP/W.No.10/CJ/STEEL/2013-14 29.07.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Jayakumar,** Contractor, Bangalore.
Name of the Work	:	Construction of RCC drain at Pete Siddappa Thiruvu Doddabommasandra main road in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-Proc/(4572)/WO/100/2013-14 Dated: 26.07.2013
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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/CJ/CUBE/2013-14 28.08.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Jayakumar,** Contractor, Bangalore.

Name of the work : Construction of RCC drain at Pete Siddappa Thiruvu Doddabommasandra main road in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-Proc/(4572)/WO/100/2013-14 Dated: 26.07.2013

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2013	28.08.2013	8.135	480.2	21.34
2	31.07.2013	28.08.2013	8.202	486.5	21.62
3	31.07.2013	28.08.2013	8.365	498.6	22.16

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